FRNC power cable AFUMEX plus 1000 N2XH acc. to VDE 0276-604

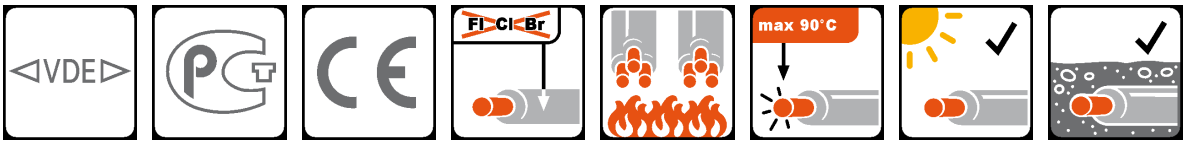
conductor material:	bare copper
conductor construction:	class 1, from 25 sqmm class 2
insulation:	XLPE
sheathing material:	special FRNC compound
colour of outer sheath:	black
flame retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Kat. C)
smoke density:	DIN EN 61034/IEC 61034
halogen free:	DIN EN 50267/IEC 60754
maximum temperature at conductor:	90 °C
max. operating temperature, fixed:	-30 - +70 °C
temperature, moved/during installation:	-5 - +70 °C
bending radius, fixed installation:	12 x DA

	N2XH-J AFUMEX +1000	*N2XH-O AFUMEX +1000*
nominal voltage Uo:	600 V	600 V
nominal voltage U:	1 kV	1 kV
test voltage:	4 kV	4 kV
core identification:	colours acc. VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers	

Application: Low-smoke, zero-halogen flame retardant power cable. For fixed indoor and outdoor installation as well as in concrete, and for direct burial in ground in possibly flooded areas. The cable complies also with IEC 60501-1.

Additional information: AFUMEX is a brand of the Prysmian Group

Finnland: MCMK



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Table: Technical characteristics N2XH-J AFUMEX +1000

p/n	part name		R_l [Ω/km]	I_{bl} [A]	I_{be} [A]	I_k [kA]	R_{bv} [mm]	D_A [mm]	Cu [kg/km]	G [kg]
013366	N2XH-J 03X1,5 AFU+	RE	12,1	24	31	0,21	144	12	43	179
013367	N2XH-J 03X2,5 AFU+	RE	7,41	32	40	0,36	156	13	72	225
013368	N2XH-J 03X4 AFU+	RE	4,61	42	52	0,57	168	14	115	291
013369	N2XH-J 03X6 AFU+	RE	3,08	53	64	0,86	180	15	173	371
013370	N2XH-J 03X10 AFU+	RE	1,83	74	86	1,43	192	16	288	523
013371	N2XH-J 03X16 AFU+	RE	1,15	98	112	2,29	240	20	461	773
013372	N2XH-J 03X25 AFU+	RM	0,727	133	145	3,58	264	22	720	1200
013373	N2XH-J 03X35 AFU+	SM	0,524	162	174	5,01	300	25	1008	1600
013374	N2XH-J 03X50 AFU+	SMv	0,387	197	206	7,15	312	26	1440	1800
013375	N2XH-J 03X25/16 AFU+	RM	0,727	133	145	3,58	288	24	874	1200

p/n	part name		R_l [Ω/km]	I_{bl} [A]	I_{be} [A]	I_k [kA]	R_{bv} [mm]	D_A [mm]	Cu [kg/km]	G [kg]
013376	N2XH-J 03X35/16 AFU+	SM	0,524	162	174	5,01	312	26	1162	1640
013377	N2XH-J 03X50/25 AFU+	SMv	0,387	197	206	7,15	384	32	1680	2200
013378	N2XH-J 03X70/35 AFU+	SMv	0,268	250	254	10,01	444	37	2352	2950
013379	N2XH-J 03X95/50 AFU+	SMv	0,193	308	305	13,59	492	41	3216	3900
013380	N2XH-J 03X120/70 AFU+	SMv	0,153	359	348	17,16	540	45	4128	4800
013381	N2XH-J 03X150/70 AFU+	SMv	0,124	412	392	21,45	588	49	4992	5750
013382	N2XH-J 03X185/95 AFU+	SMv	0,0991	475	444	26,46	660	55	6240	7200
013383	N2XH-J 03X240/120 AFU+	SMv	0,0754	564	517	34,32	744	62	8064	9150
013384	N2XH-J 04X1,5 AFU+	RE	12,1	24	31	0,21	156	13	58	208
013385	N2XH-J 04X2,5 AFU+	RE	7,41	32	40	0,36	168	14	96	265
013386	N2XH-J 04X4 AFU+	RE	4,61	42	52	0,57	180	15	154	352
013387	N2XH-J 04X6 AFU+	RE	3,08	53	64	0,86	192	16	230	454
013388	N2XH-J 04X10 AFU+	RE	1,83	74	86	1,43	216	18	384	647
013389	N2XH-J 04X16 AFU+	RE	1,15	98	112	2,29	240	20	614	964
013390	N2XH-J 04X25 AFU+	RM	0,727	133	145	3,58	312	26	960	1446
013391	N2XH-J 04X35 AFU+	SM	0,524	162	174	5,01	348	29	1344	1906
013392	N2XH-J 04X50 AFU+	SMv	0,387	197	206	7,15	384	32	1920	2530
013393	N2XH-J 04X70 AFU+	SMv	0,268	250	254	10,01	444	37	2688	3418
013394	N2XH-J 04X95 AFU+	SMv	0,193	308	305	13,59	492	41	3648	4574
013395	N2XH-J 04X120 AFU+	SMv	0,153	359	348	17,16	576	48	4608	5300
013396	N2XH-J 04X150 AFU+	SMv	0,124	412	392	21,45	600	50	5760	6350
013397	N2XH-J 04X185 AFU+	SMv	0,0991	475	444	26,46	636	53	7104	7800
013398	N2XH-J 04X240 AFU+	SMv	0,0754	564	517	34,32	696	58	9216	10300
013399	N2XH-J 05X1,5 AFU+	RE	12,1	24	31	0,21	168	14	72	243
013400	N2XH-J 05X2,5 AFU+	RE	7,41	32	40	0,36	180	15	120	310
013401	N2XH-J 05X4 AFU+	RE	4,61	42	52	0,57	192	16	192	413
013402	N2XH-J 05X6 AFU+	RE	3,08	53	64	0,57	204	17	288	536
013403	N2XH-J 05X10 AFU+	RE	1,83	74	86	0,86	228	19	480	776
013404	N2XH-J 05X16 AFU+	RE	1,15	98	112	2,29	264	22	768	1165
013405	N2XH-J 05X25 AFU+	RM	0,727	133	145	3,58	300	25	1200	1766
013406	N2XH-J 05X35 AFU+	RM	0,524	162	174	5,01	346	28,8	1680	2155
013407	N2XH-J 07X1,5 AFU+	RE	12,1	24	31	0,21	168	14	101	206
013411	N2XH-J 12X1,5 AFU+	RE	12,1	24	31	0,21	204	17	173	328
013412	N2XH-J 14X1,5 AFU+	RE	12,1	24	31	0,21	204	17	202	383
013413	N2XH-J 19X1,5 AFU+	RE	12,1	24	31	0,21	228	19	274	484
013414	N2XH-J 24X1,5 AFU+	RE	12,1	24	31	0,21	264	22	346	603
013417	N2XH-J 07X2,5 AFU+	RE	7,41	32	40	0,36	180	15	168	287
013419	N2XH-J 12X2,5 AFU+	RE	7,41	32	40	0,36	216	18	288	472
013420	N2XH-J 14X2,5 AFU+	RE	7,41	32	40	0,36	228	19	336	670
013424	N2XH-J 07X4 AFU+	RE	4,61	42	52	0,57	180	15	269	530
013428	N2XH-J 01X16 AFU+	RE	1,15	98	112	2,29	144	12	154	270
013429	N2XH-J 01X95 AFU+	RMv	0,193	308	305	13,59	240	20	912	1200
013430	N2XH-J 01X120 AFU+	RMv	0,153	380	349	17,16	264	22	1152	1250
013431	N2XH-J 01X185 AFU+	RMv	0,0991	507	445	21,45	312	26	1776	2200
013432	N2XH-J 01X240 AFU+	RMv	0,0754	604	517	34,32	348	29	2304	2750
013433	N2XH-J 04X25/16 AFU+	RM	0,727	133	145	3,58	314	26,1	1114	1539
013434	N2XH-J 04X35/16 AFU+	SM	0,524	162	174	5,01	353	29,4	1498	1965
013435	N2XH-J 04X50/25 AFU+	SMv	0,387	197	206	7,15	371	30,8	2160	2445
013436	N2XH-J 04X70/35 AFU+	SMv	0,268	250	254	10,01	416	34,6	3024	3342
013437	N2XH-J 04X185/95 AFU+	SMv	0,0991	475	444	21,45	634	52,8	8016	8508

Table: Technical characteristics N2XH-O AFUMEX +1000

p/n	part name		R_l [Ω/km]	I_{bl} [A]	I_{be} [A]	I_k [kA]	R_{bv} [mm]	D_A [mm]	Cu [kg/km]	G [kg]
013326	N2XH-O 01X1,5 AFU+	RE	12,1	26	33	0,21			14,4	53
013329	N2XH-O 01X4 AFU+	RE	4,61	44	54	0,57	135	9	38	140
013330	N2XH-O 01X6 AFU+	RE	3,08	56	67	0,86	150	10	58	160
013331	N2XH-O 01X10 AFU+	RE	1,83	77	89	1,43	165	11	96	210
013332	N2XH-O 01X16 AFU+	RE	1,15	102	115	2,29	180	12	154	270

p/n	part name		R_l [Ω/km]	I_{bl} [A]	I_{be} [A]	I_k [kA]	R_{bv} [mm]	D_A [mm]	Cu [kg/km]	G [kg]
013333	N2XH-O 01X25 AFU+	RM	0,727	138	148	3,58	210	14	240	380
013334	N2XH-O 01X35 AFU+	RM	0,524	170	177	5,01	225	15	336	490
013335	N2XH-O 01X50 AFU+	RMv	0,387	207	209	7,15	240	16	480	620
013336	N2XH-O 01X70 AFU+	RMv	0,268	263	256	10,01	270	18	672	830
013337	N2XH-O 01X95 AFU+	RMv	0,193	325	307	13,59	300	20	912	1200
013338	N2XH-O 01X120 AFU+	RMv	0,153	380	349	17,16	330	22	1152	1250
013339	N2XH-O 01X150 AFU+	RMv	0,124	437	393	21,45	360	24	1440	1700
013340	N2XH-O 01X185 AFU+	RMv	0,0991	507	445	26,46	390	26	1776	2200
013341	N2XH-O 01X240 AFU+	RMv	0,0754	604	517	34,32	435	29	2304	2750
013342	N2XH-O 01X300 AFU+	RMv	0,0601	697	583	42,9	450	30	2880	3300
013343	N2XH-O 01X400 AFU+	RMv	0,047	811	663	57,2	480	32	3840	4420
013347	N2XH-O 03X1,5 AFU+	RE	12,1	24	31	0,21	144	12	43	179
013349	N2XH-O 03X2,5 AFU+	RE	7,41	32	40	0,36	156	13	72	225
013350	N2XH-O 02X4 AFU+	RE	4,61	42	52	0,57	156	13	77	270
013351	N2XH-O 02X6 AFU+	RE	3,08	53	64	0,86	168	14	115	340
013352	N2XH-O 02X10 AFU+	RE	1,83	74	86	1,43	192	16	192	450
013353	N2XH-O 02X16 AFU+	RE	1,15	98	112	2,29	216	18	307	600
013354	N2XH-O 02X25 AFU+	RM	0,727	133	145	3,58	276	23	480	980
013355	N2XH-O 04X4 AFU+	RE	4,61	42	52	0,57	180	15	154	352
013356	N2XH-O 04X6 AFU+	RE	3,08	53	64	0,86	192	16	230	454
013357	N2XH-O 04X10 AFU+	RE	1,83	74	86	1,43	216	18	384	647
013358	N2XH-O 04X16 AFU+	RE	1,15	98	112	2,29	240	20	614	964
013359	N2XH-O 04X25 AFU+	RM	0,727	133	145	3,58	312	26	960	1446
013360	N2XH-O 04X35 AFU+	SM	0,524	162	174	5,01	348	29	1344	1906
013361	N2XH-O 04X50 AFU+	SMv	0,387	197	206	7,15	384	32	1920	2530
013362	N2XH-O 04X70 AFU+	SMv	0,268	250	254	10,01	444	37	2688	3418
013363	N2XH-O 04X95 AFU+	SMv	0,193	308	305	13,59	492	41	3648	4574
013364	N2XH-O 04X120 AFU+	SMv	0,153	359	348	17,16	576	48	4608	5300

Rl	conductor resistance
Ibl	ampacity (in air)
Ibe	ampacity (in ground)
Ik	short circuit current (1 s)
Rbv	bending radius, fixed installation
DA	outer diameter
Cu	copper
G	weight